

Certificate of Analysis

Product Name: Coelenterazine 400 a
CAT #: C-320
CAS #: 70217-82-2
LOT #: Lot Specific
Retest Date: Lot Specific
Storage: Store desiccated at -20°C

TEST	SPECS	RESULT
Appearance:	Yellow to orange powder	Orange crystalline powder
Solution (0.1 % in acetone)	Corresponding	Yellow clear
Purity (TLC)	> 95.0 %	> 95.0 %
Thin Layer Chromatogram	Corresponding	In accordance with reference material
Melting point	141 °C	142 °C ± 2 °C
NMR	Corresponds	Consistent with assigned structure
FTIR	Corresponds	Consistent with assigned structure
UV Wavelength (in 0.015mg/mL methanol)	$\lambda_{\max 1}$: 429 nm ± 3 nm	429.4 nm
Molar Extinction Coefficient (at UV 429nm)	ϵ_1 : > 7400 l·mol ⁻¹ ·cm ⁻¹	8250 l·mol ⁻¹ ·cm ⁻¹
UV Wavelength (in 0.015mg/mL methanol)	$\lambda_{\max 2}$: 356 nm ± 3 nm	356.4 nm
Molar Extinction Coefficient (at UV 356nm)	ϵ_1 : > 7400 l·mol ⁻¹ ·cm ⁻¹	5892 l·mol ⁻¹ ·cm ⁻¹
UV Wavelength (in 0.015mg/mL methanol)	$\lambda_{\max 3}$: 249 nm ± 3 nm	247.6 nm
Molar Extinction Coefficient (at UV 249nm)	ϵ_3 : > 21000 l·mol ⁻¹ ·cm ⁻¹	23086 l·mol ⁻¹ ·cm ⁻¹

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